

ABSTRACT OF THE DISCLOSURE

A function reconfigurable semiconductor device is provided. The function reconfigurable semiconductor device includes a plurality of
5 function cells, each of the function cells being a basic unit which realizes a function; each of the function cells including a plurality of threshold elements; each of the threshold elements including means which stores a threshold value; and wherein a
10 function which is realized by the function cell is determined by determining the threshold value in each of the threshold elements. In addition, the semiconductor device includes a nonvolatile memory which stores data for realizing the function in the
15 function cells.